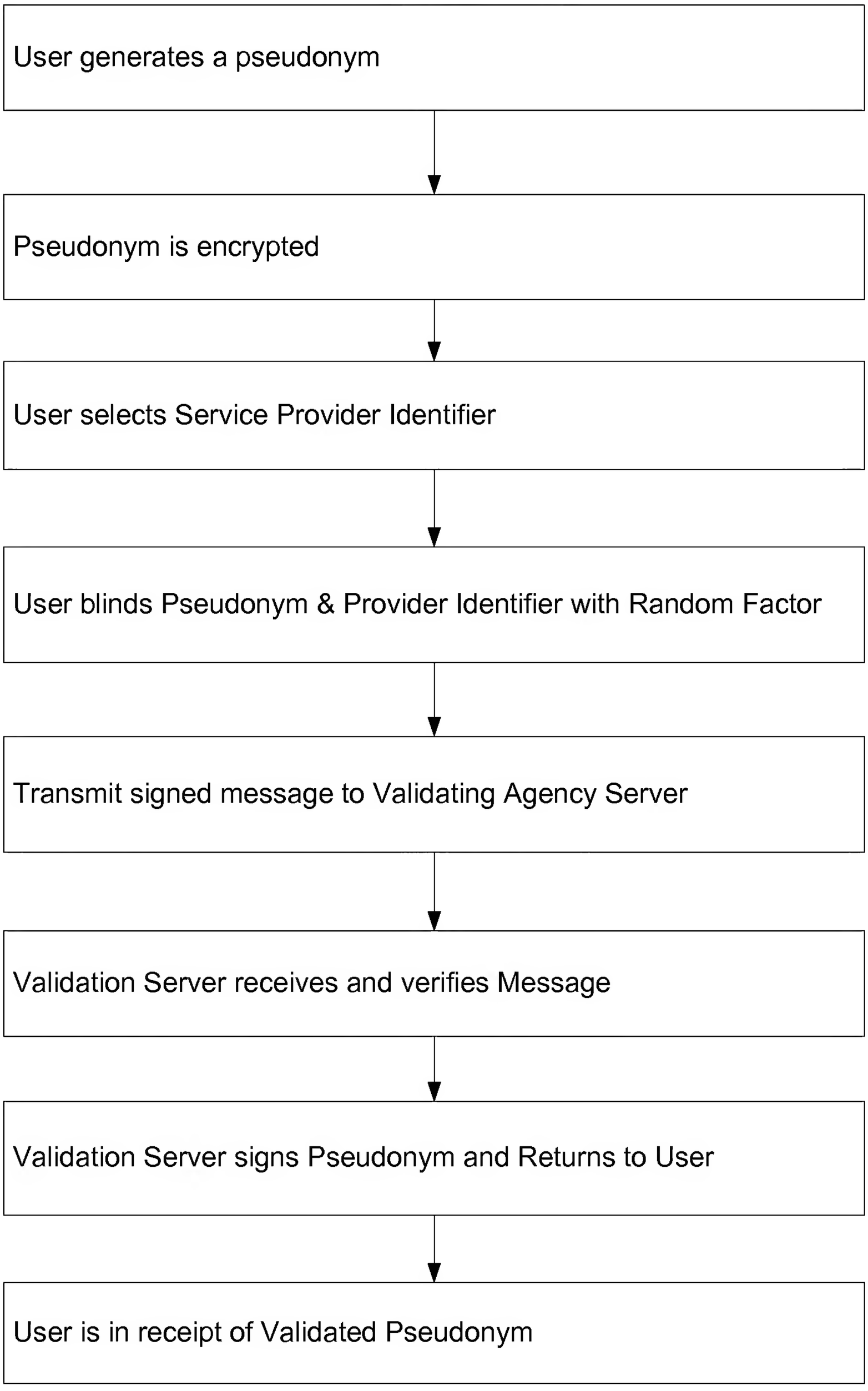
User generates a pseudonym
Pseudonym is encrypted
User selects Service Provider Identifier
User blinds Pseudonym & Provider Identifier with Random Factor
Transmit signed message to Validating Agency Server
Validation Server receives and verifies Message
Validation Server signs Pseudonym and Returns to User
User is in receipt of Validated Pseudonym

FIG. 1

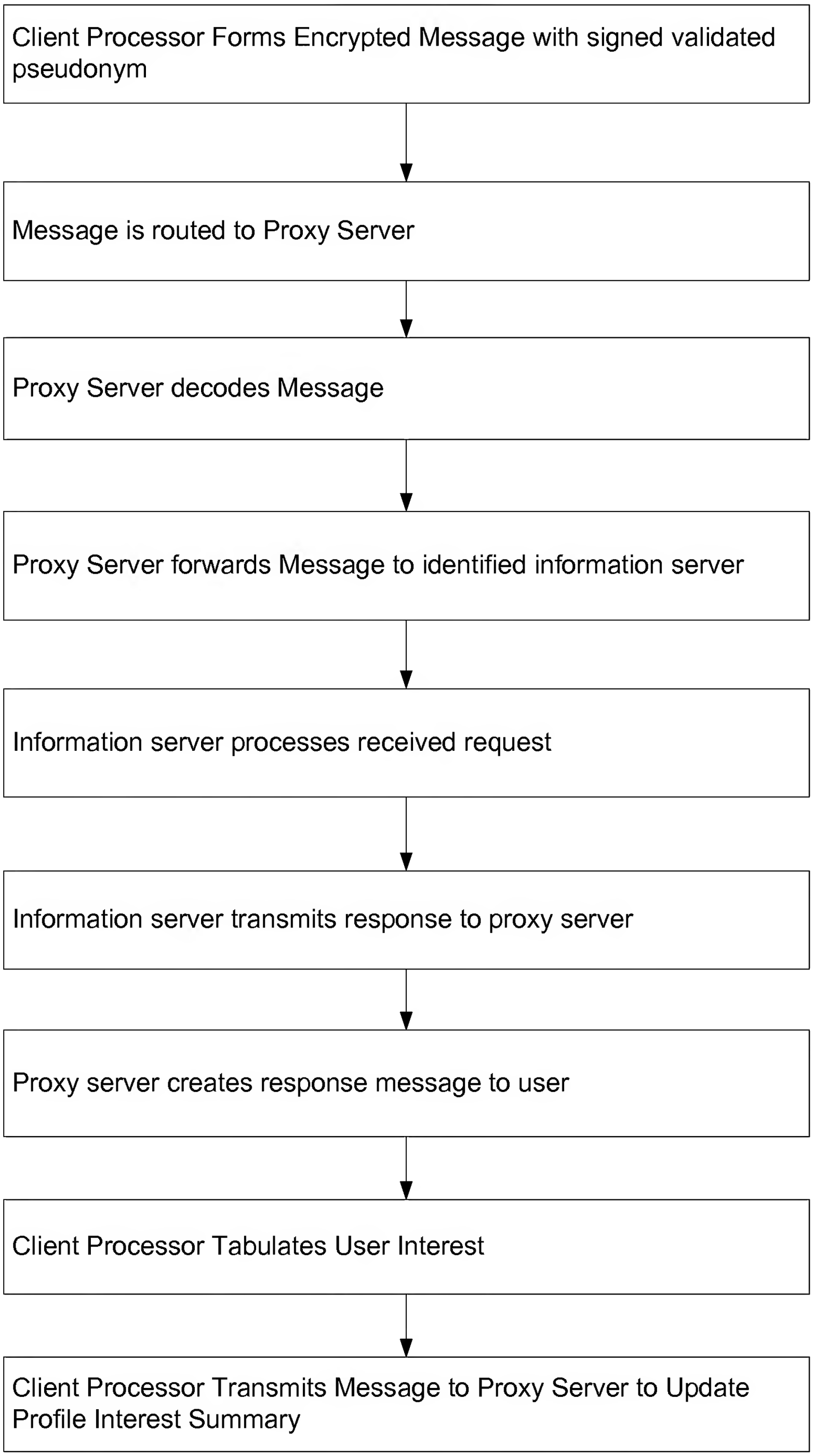
Client Processor Forms Encrypted Message with signed validated pseudonym
Message is routed to Proxy Server
Proxy Server decodes Message
Proxy Server forwards Message to identified information server
Information server processes received request
Information server transmits response to proxy server
Proxy server creates response message to user
Client Processor Tabulates User Interest
Client Processor Transmits Message to Proxy Server to Update Profile Interest Summary

FIG. 2

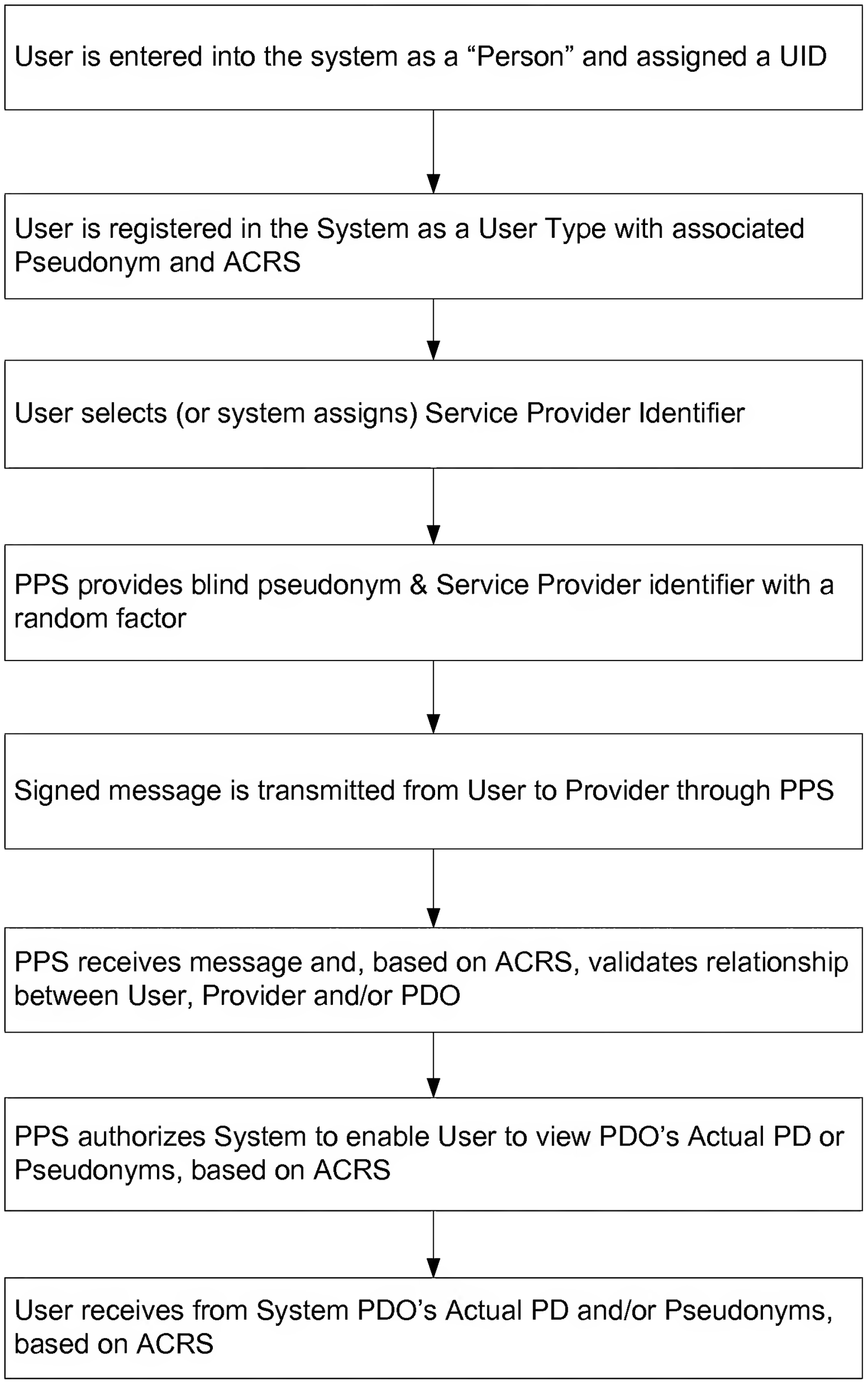
User is entered into the system as a “Person” and assigned a UID
User is registered in the System as a User Type with associated Pseudonym and ACRS
User selects (or system assigns) Service Provider Identifier
PPS provides blind pseudonym & Service Provider identifier with a random factor
Signed message is transmitted from User to Provider through PPS
PPS receives message and, based on ACRS, validates relationship between User, Provider and/or PDO
PPS authorizes System to enable User to view PDO’s Actual PD or Pseudonyms, based on ACRS
User receives from System PDO’s Actual PD and/or Pseudonyms, based on ACRS

FIG. 3

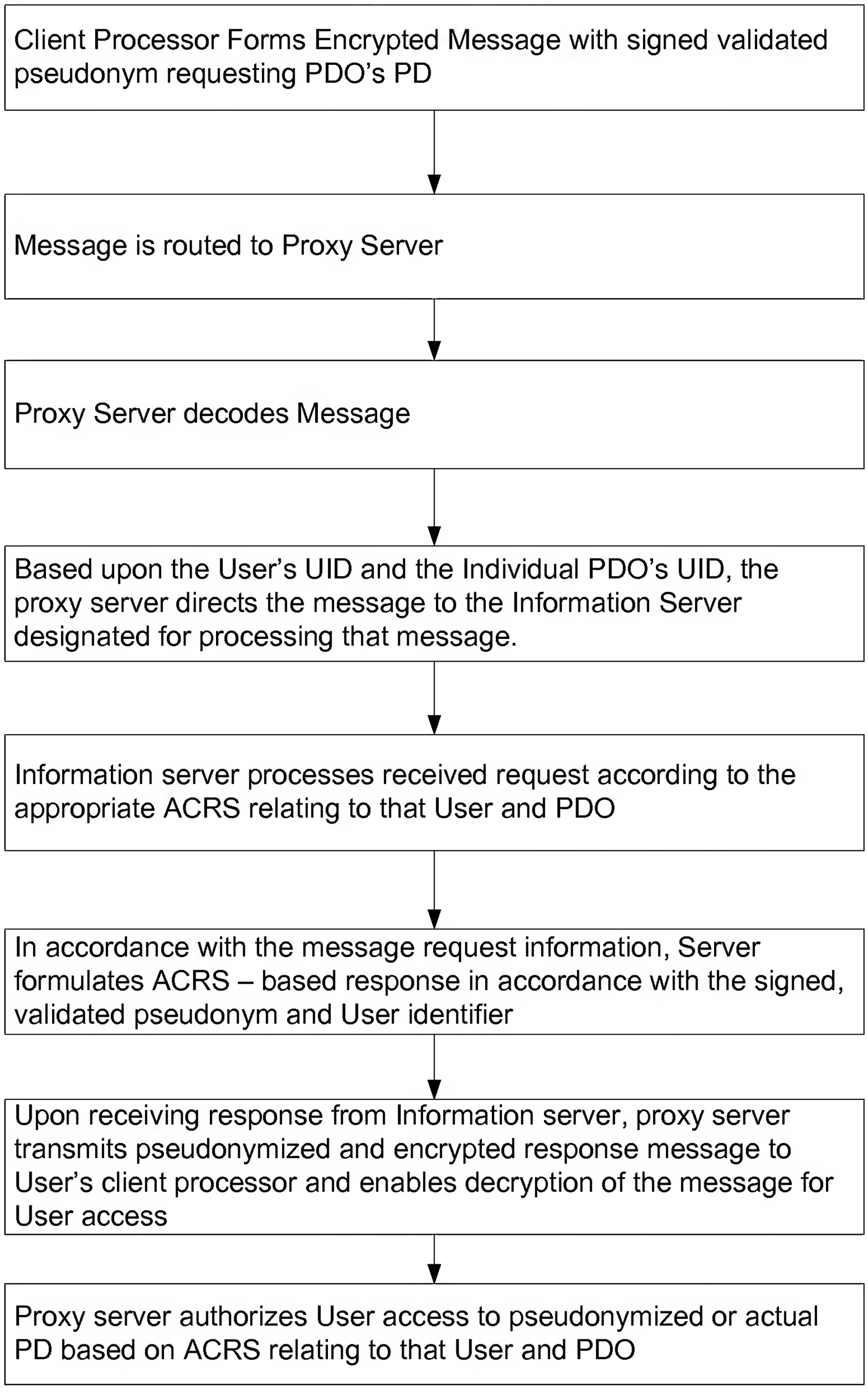
Client Processor Forms Encrypted Message with signed validated pseudonym requesting PDO's PD
Message is routed to Proxy Server
Proxy Server decodes Message
Based upon the User's UID and the Individual PDO's UID, the proxy server directs the message to the Information Server designated for processing that message.
Information server processes received request according to the appropriate ACRS relating to that User and PDO
In accordance with the message request information, Server formulates ACRS – based response in accordance with the signed, validated pseudonym and User identifier
Upon receiving response from Information server, proxy server transmits pseudonymized and encrypted response message to User's client processor and enables decryption of the message for User access
Proxy server authorizes User access to pseudonymized or actual PD based on ACRS relating to that User and PDO

FIG. 4

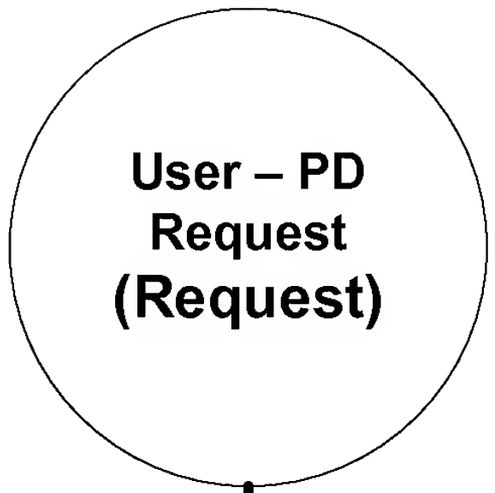
User – PD
Request
(Request)
PPS -Registers/
Transmits
Pseudo/ Actual
data per - ACRS
Pseud. PD
Access

FIG. 5

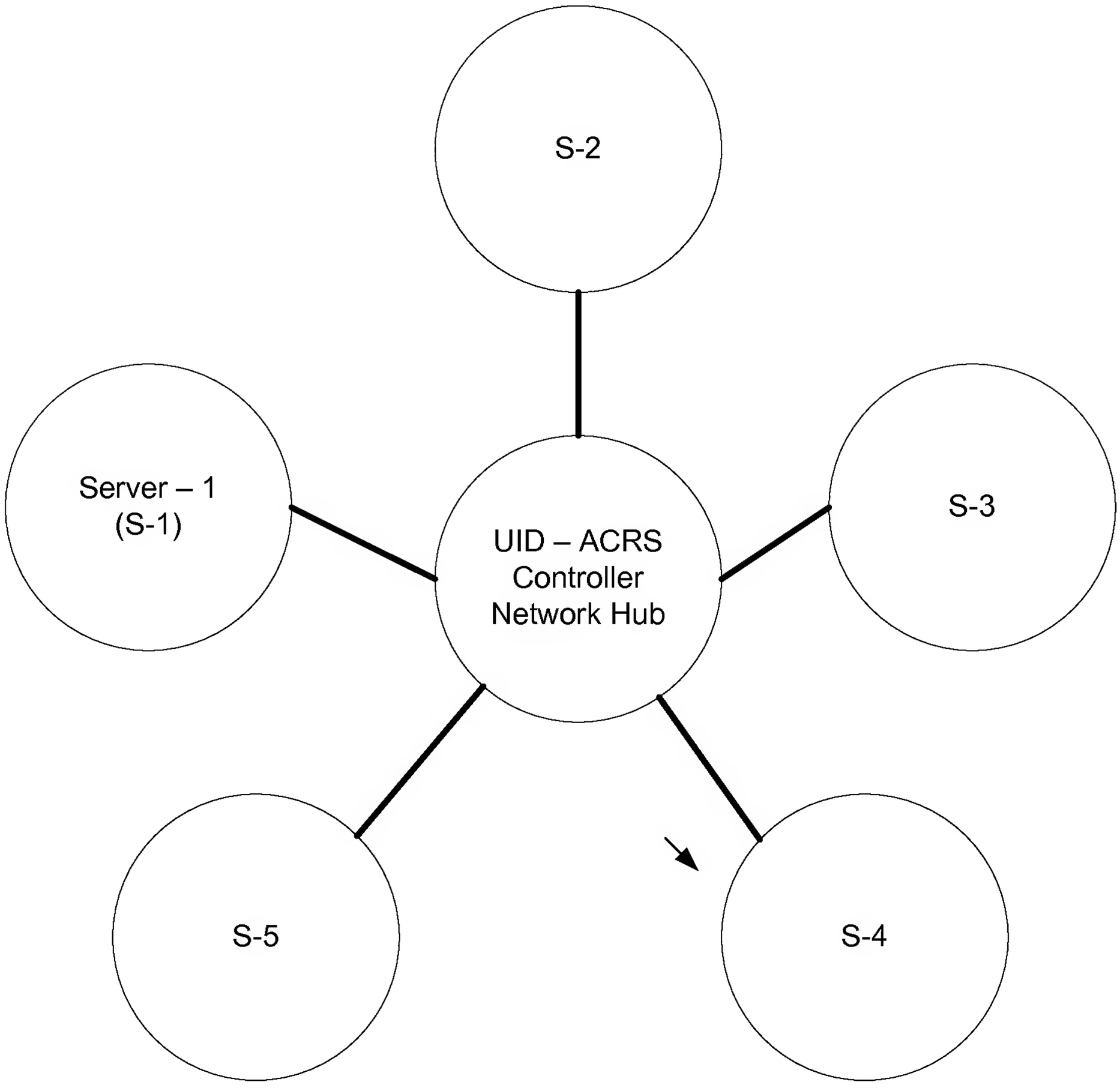

FIG. 6

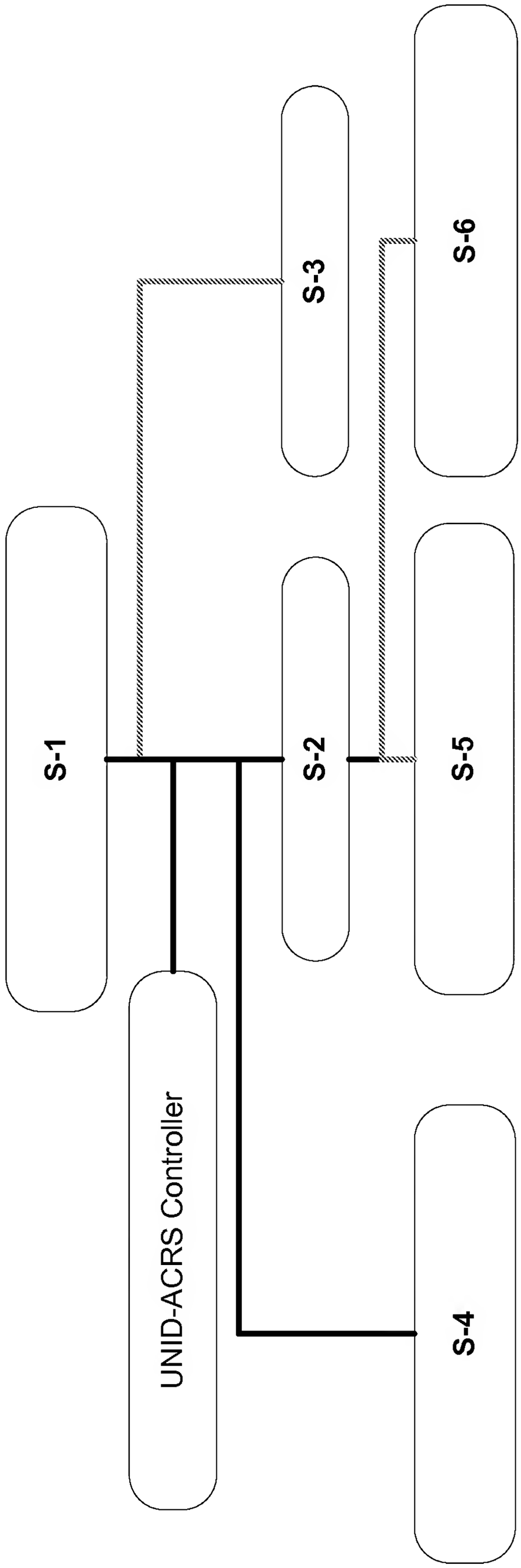

FIG. 7

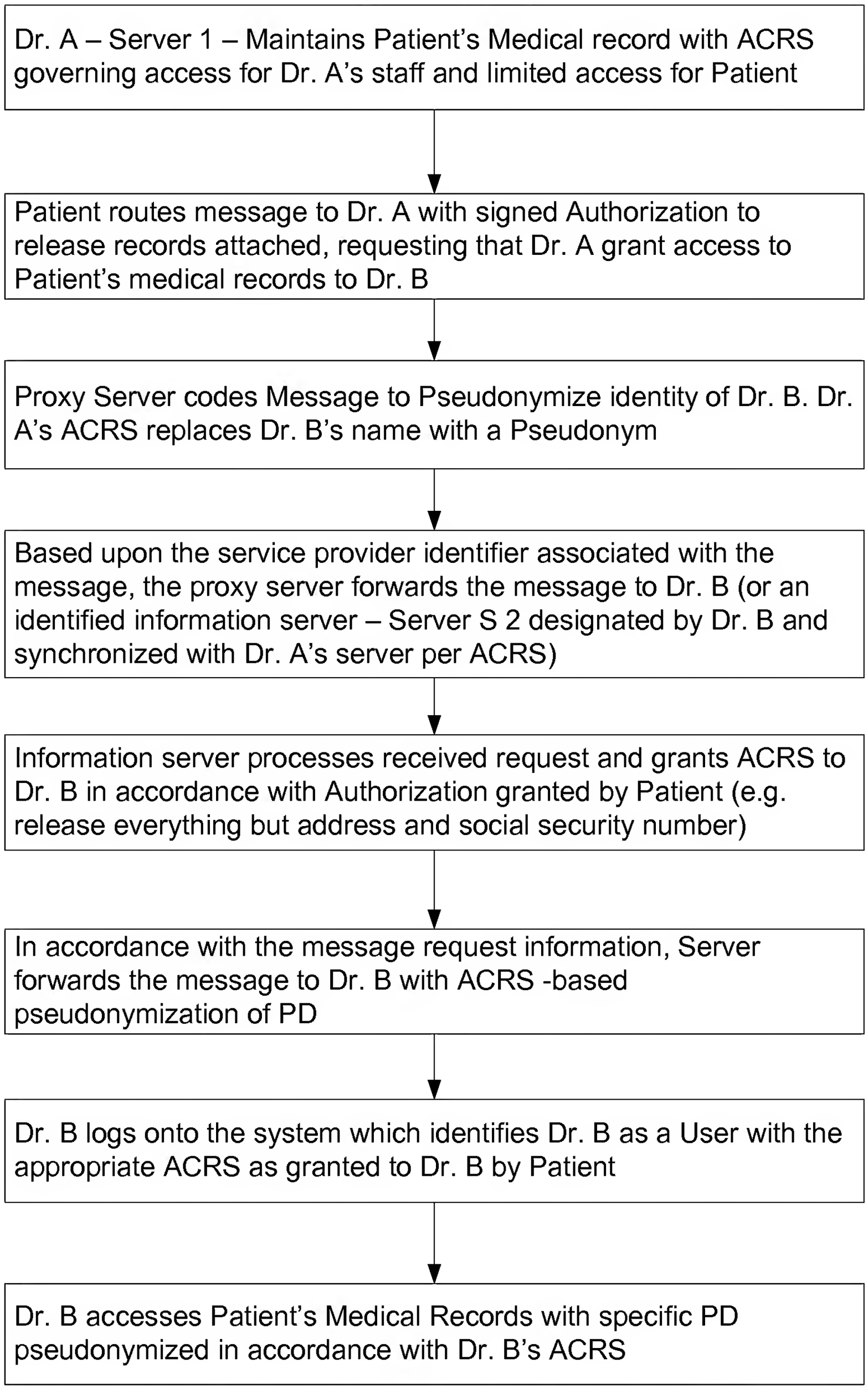
Dr. A – Server 1 – Maintains Patient's Medical record with ACRS governing access for Dr. A's staff and limited access for Patient
Patient routes message to Dr. A with signed Authorization to release records attached, requesting that Dr. A grant access to Patient's medical records to Dr. B
Proxy Server codes Message to Pseudonymize identity of Dr. B. Dr. A's ACRS replaces Dr. B's name with a Pseudonym
Based upon the service provider identifier associated with the message, the proxy server forwards the message to Dr. B (or an identified information server – Server S 2 designated by Dr. B and synchronized with Dr. A's server per ACRS)
Information server processes received request and grants ACRS to Dr. B in accordance with Authorization granted by Patient (e.g. release everything but address and social security number)
In accordance with the message request information, Server forwards the message to Dr. B with ACRS -based pseudonymization of PD
Dr. B logs onto the system which identifies Dr. B as a User with the appropriate ACRS as granted to Dr. B by Patient
Dr. B accesses Patient's Medical Records with specific PD pseudonymized in accordance with Dr. B's ACRS

FIG. 8